

Here are eight review questions of varying difficulty from chapters 1 & 2. I will expect to see at-least two ***credit-worthy contributions*** from each student. Only one question should be from 1 – 5. A ***credit-worthy contribution*** may take the form of posting corrections of someone else's posted solution, or posting your own solution. You need to show all your steps and include helpful comments for your readers. Once a satisfactory solution to a question has been posted, you need to select a different question.

You may collaborate in groups of no more than 2 students to make significant contributions. Remember to include the names of all group members.

1. Solve $5|3 - 2x| = x + 4$
2. Solve $|2x - 1| \leq 7$. Graph the solution set
3. Solve $|3x + 11| > 1$
4. Solve $\frac{1}{2}(3x - 1) - \frac{1}{4}(2x + 6) > x + 1$
5. Find the standard form of the equation of the line that passes through $(-3, 4)$ and is perpendicular to the line whose equation is $y = \frac{2}{3}x - 1$
6. Graph $f(x) = \begin{cases} 4 & \text{if } x < -3 \\ x + 2 & \text{if } -3 \leq x < 1 \\ -2x + 1 & \text{if } x \geq 1 \end{cases}$
7. Graph $f(x) = 2[[x]] - 1$. Show at-least four steps.
8. Write $f(x) = -4|2x - 3| + x + 1$ as an equivalent function in simplest form without the absolute value sign.